WHAT IS CLAIMED IS:

- 1. An antimicrobial medical article prepared by a method comprising treating a surface of a polymeric medical article, for an effective period of time, with a solution consisting essentially of one or more solvents and a mixture of chlorhexidine free base and a water-soluble chlorhexidine salt, wherein the weight/weight ratio of chlorhexidine free base and the water-soluble chlorhexidine salt in the solution is between 1:1 and 1:5, and wherein the combined concentration of chlorhexidine free base and a water-soluble salt of chlorhexidine is about 2.00 percent (w/v) or greater.
- 2. The antimicrobial medical article of Claim 1, wherein the concentrations of chlorhexidine free base and a water-soluble salt of chlorhexidine are each about 1.00 percent (w/v).
- 3. The antimicrobial medical article of Claim 1, wherein the concentrations of chlorhexidine free base and a water-soluble salt of chlorhexidine are each about 1.20 percent (w/v).
- 4. The antimicrobial medical article of Claim 1, wherein the concentrations of chlorhexidine free base and a water-soluble salt of chlorhexidine are about 0.625 percent (w/v) and about 1.375 percent (w/v), respectively.
- 5. The antimicrobial medical article of Claim 1, wherein the concentrations of chlorhexidine free base and a water-soluble salt of chlorhexidine are each about 2.00 percent (w/v).
- 6. The antimicrobial medical article of Claim 1, wherein the one or more solvents comprise methanol.
- 7. The antimicrobial medical article of Claim 6, wherein the solvent is a mixture of between 75 and 95 percent (volume/volume) tetrahydrofuran and 5 and 25 percent (volume/volume) methanol.
- 8. The antimicrobial medical article of Claim 1, wherein the one or more solvents comprise ethanol.
- 9. The antimicrobial medical article of Claim 8, wherein the solvent is a mixture of between 10 and 30 percent (volume/volume) tetrahydrofuran and 70 and 90 percent (volume/volume) ethanol.
- 10. The antimicrobial medical article of Claim 1, wherein the water-soluble chlorhexidine salt is chlorhexidine diacetate.

- 11. An antimicrobial medical article prepared by a method comprising treating a surface of a polymeric medical article, for an effective period of time, with a solution consisting essentially of one or more solvents and a mixture of chlorhexidine free base and a water-soluble chlorhexidine salt, wherein the concentrations of chlorhexidine free base and a water-soluble salt of chlorhexidine are each about 0.20 percent (w/v).
- 12. The antimicrobial medical article of Claim 11, wherein the one or more solvents comprise methanol.
- 13. The antimicrobial medical article of Claim 12, wherein the solvent is a mixture of between 75 and 95 percent (volume/volume) tetrahydrofuran and 5 and 25 percent (volume/volume) methanol.
- 14. The antimicrobial medical article of Claim 11, wherein the one or more solvents comprise ethanol.
- 15. The antimicrobial medical article of Claim 14, wherein the solvent is a mixture of between 10 and 30 percent (volume/volume) tetrahydrofuran and 70 and 90 percent (volume/volume) ethanol.
- 16. The antimicrobial medical article of Claim 11, wherein the water-soluble chlorhexidine salt is chlorhexidine diacetate.
- 17. An antimicrobial medical article prepared by a method comprising treating a surface of a polymeric medical article, for an effective period of time, with a solution consisting essentially of a mixture of chlorhexidine free base and a water-soluble chlorhexidine salt, wherein the weight/weight ratio of chlorhexidine free base and the water-soluble chlorhexidine salt in the solution is between 1:1 and 1:5, and comprising a solvent comprising methanol.
- 18. The antimicrobial medical article of Claim 17, wherein the water-soluble chlorhexidine salt is chlorhexidine diacetate.
- 19. An antimicrobial medical article prepared by a method comprising treating a surface of a polymeric medical article, for an effective period of time, with a solution comprising one or more solvents, a silver compound, and a mixture of chlorhexidine free base and a water-soluble chlorhexidine salt, wherein the weight/weight ratio of chlorhexidine free base and the water-soluble chlorhexidine salt in the solution is between 1:1 and 1:5.

- 20. The antimicrobial medical article of Claim 19, wherein the one or more solvents comprise methanol.
- 21. The antimicrobial medical article of Claim 20, wherein the solvent is a mixture of between 75 and 95 percent (volume/volume) tetrahydrofuran and 5 and 25 percent (volume/volume) methanol.
- 22. The antimicrobial medical article of Claim 19, wherein the one or more solvents comprise ethanol.
- 23. The antimicrobial medical article of Claim 22, wherein the solvent is a mixture of between 10 and 30 percent (volume/volume) tetrahydrofuran and 70 and 90 percent (volume/volume) ethanol.
- 24. The antimicrobial medical article of Claim 19, wherein the water-soluble chlorhexidine salt is chlorhexidine diacetate.
- 25. The antimicrobial medical article of Claim 19, wherein the silver compound is selected from the group consisting of silver carbonate and silver sulfadiazine.
- 26. An antimicrobial medical article prepared by a method comprising treating a surface of a polymeric medical article, for an effective period of time, with a solution consisting essentially of one or more solvents and a mixture of chlorhexidine free base and a water-soluble chlorhexidine salt, wherein the weight/weight ratio of chlorhexidine free base and the water-soluble chlorhexidine salt in the solution is greater than 1:1.
- 27. The antimicrobial medical article of Claim 26, wherein the one or more solvents comprise methanol.
- 28. The antimicrobial medical article of Claim 27, wherein the solvent is a mixture of between 75 and 95 percent (volume/volume) tetrahydrofuran and 5 and 25 percent (volume/volume) methanol.
- 29. The antimicrobial medical article of Claim 26, wherein the one or more solvents comprise ethanol.
- 30. The antimicrobial medical article of Claim 29, wherein the solvent is a mixture of between 10 and 30 percent (volume/volume) tetrahydrofuran and 70 and 90 percent (volume/volume) ethanol.
- 31. The antimicrobial medical article of Claim 26, wherein the water-soluble chlorhexidine salt is chlorhexidine diacetate.

- 32. The antimicrobial medical article of any one of Claims 1, 11, 17, 19 or 26, wherein the article is a hydrophilic polymeric medical article.
 - 33. The antimicrobial medical article of Claim 32, wherein the article is a catheter.
- 34. The catheter of Claim 33, wherein the catheter has a lumen which is treated, for an effective period of time, with the solution consisting essentially of one or more solvents and the mixture of chlorhexidine free base and water-soluble chlorhexidine salt.
- 35. The medical article of Claim 32, wherein the water-soluble chlorhexidine salt is chlorhexidine diacetate.
- 36. The catheter of Claim 33, wherein the water-soluble chlorhexidine salt is chlorhexidine diacetate.
- 37. The catheter of Claim 34, wherein the water-soluble chlorhexidine salt is chlorhexidine diacetate.
- 38. An antimicrobial medical article prepared by a method comprising treating a surface of a polymeric medical article, for an effective period of time, with a solution consisting essentially of one or more solvents and a mixture of chlorhexidine free base and a water-soluble chlorhexidine salt, wherein the weight/weight ratio of chlorhexidine free base and the water-soluble chlorhexidine salt in the solution is between 1:1 and 1:5, wherein the article is a hydrophobic polymeric medical article, optionally comprising expanded polytetrafluoroethylene.
- 39. An antimicrobial medical article prepared by a method comprising treating a surface of a polymeric medical article, for an effective period of time, with a solution consisting essentially of
 - (1) one or more solvents;
 - (2) a mixture of chlorhexidine free base and a water-soluble chlorhexidine salt; and
 - (3) one or more of (i) an organic acid, at a concentration of between 0.1 and 5 percent; (ii) an anti-inflammatory agent, at a concentration of between 0.1 and 5 percent; or (iii) a hydrogel at a concentration of between 0.5 to 10 percent,

wherein the weight/weight ratio of chlorhexidine free base and the water-soluble chlorhexidine salt in the solution is between 1:1 to 1:5.

- 40. The antimicrobial medical article of Claim 39, wherein the concentration of organic acid in the solution is between 0.1 and 2 percent.
- 41. The antimicrobial medical article of Claim 39, wherein the concentration of antiinflammatory agent is between 0.1 and 1 percent.
- 42. The antimicrobial medical article of Claim 39, wherein the concentration of hydrogel in the solution is between 1 and 5 percent.
- 43. The antimicrobial medical article of Claim 39, wherein the combined concentration of the mixture of chlorhexidine free base and a water-soluble salt of chlorhexidine is about 2.00 percent (w/v) or greater.
- 44. The antimicrobial medical article of Claim 43, wherein the concentration of organic acid in the solution is between 0.1 and 2 percent.
- 45. The antimicrobial medical article of Claim 43, wherein the concentration of antiinflammatory agent is between 0.1 and 1 percent.
- 46. The antimicrobial medical article of Claim 43, wherein the concentration of hydrogel in the solution is between 1 and 5 percent.
- 47. The antimicrobial medical article of Claim 43, and wherein the concentrations of chlorhexidine free base and a water-soluble salt of chlorhexidine are each about 0.20 percent (w/v).
- 48. The antimicrobial medical article of Claim 47, wherein the concentration of organic acid in the solution is between 0.1 and 2 percent.
- 49. The antimicrobial medical article of Claim 47, wherein the concentration of antiinflammatory agent is between 0.1 and 1 percent.
- 50. The antimicrobial medical article of Claim 47, wherein the concentration of hydrogel in the solution is between 1 and 5 percent.
 - 51. A method of preparing a medical article comprising the steps of
 - (i) placing the medical article in a solution consisting essentially of
 - (a) a solvent comprising methanol; and
 - (b) a mixture of chlorhexidine free base and a water-soluble chlorhexidine salt, wherein the weight/weight ratio of chlorhexidine free base and water-soluble chlorhexidine salt in the solution is between 1:1 to 1:5;

- (ii) soaking the medical article in the solution for an effective period of time to allow the medical article to swell;
- (iii) removing the medical article from the solution; and
- (iv) drying the medical article.
- 52. The method of Claim 51, wherein the combined concentration of the mixture of chlorhexidine free base and a water-soluble salt of chlorhexidine is about 2.00 percent (w/v) or greater.
- 53. The method of Claim 51, wherein the concentrations of chlorhexidine free base and a water-soluble salt of chlorhexidine are each about 0.20 percent (w/v).
- 54. The method of Claim 52, wherein the concentrations of chlorhexidine free base and a water-soluble salt of chlorhexidine are each about 1.00 percent (w/v).
- 55. The method of Claim 52, wherein the concentrations of chlorhexidine free base and a water-soluble salt of chlorhexidine are each about 1.20 percent (w/v).
- 56. The method of Claim 52, wherein the concentrations of chlorhexidine free base and a water-soluble salt of chlorhexidine are about 0.625 percent (w/v) and about 1.375 percent (w/v), respectively.
- 57. The method of Claim 52, wherein the concentrations of chlorhexidine free base and a water-soluble salt of chlorhexidine are each about 2.00 percent (w/v).
 - 58. A method of preparing a catheter having a lumen comprising the steps of
 - (i) exposing the lumen of the catheter to a solution consisting essentially of
 - (a) a solvent comprising methanol; and
 - (b) a mixture of chlorhexidine free base and a water-soluble chlorhexidine salt, wherein the weight/weight ratio of chlorhexidine free base and water-soluble chlorhexidine salt in the solution is between 1:1 to 1:5;
 - (ii) filling the lumen of the catheter with the solution for an effective period of time to allow the lumen of the catheter to swell;
 - (iii) removing the solution from the lumen of the catheter; and
 - (iv) drying the catheter.

- 59. The method of Claim 58, wherein the combined concentration of the mixture of chlorhexidine free base and a water-soluble salt of chlorhexidine is about 2.00 percent (w/v) or greater.
- 59. The method of Claim 58, wherein the concentrations of chlorhexidine free base and a water-soluble salt of chlorhexidine are each about 0.20 percent (w/v).
- 60. The method of Claim 59, wherein the concentrations of chlorhexidine free base and a water-soluble salt of chlorhexidine are each about 1.00 percent (w/v).
- 61. The method of Claim 59, wherein the concentrations of chlorhexidine free base and a water-soluble salt of chlorhexidine are each about 1.20 percent (w/v).
- 62. The method of Claim 59, wherein the concentrations of chlorhexidine free base and a water-soluble salt of chlorhexidine are about 0.625 percent (w/v) and about 1.375 percent (w/v), respectively.
- 63. The method of Claim 59, wherein the concentrations of chlorhexidine free base and a water-soluble salt of chlorhexidine are each about 2.00 percent (w/v).